

Table 4. Parameter selection for water quality assessment in relation to water uses

| Variables | Background monitoring | Aquatic life and fisheries | Drinking water sources | Recreation and health | Irrigation | Livestock watering | Power generation | Iron and steel | Pulp and paper | Food processing | Petroleum |
|---------------------------|-----------------------|----------------------------|------------------------|-----------------------|------------|--------------------|------------------|----------------|----------------|-----------------|-----------|
| Temperature | H | H | | L | | | | H | L | | |
| Color | M | | M | M | | | | | L | M | |
| Odor | | | M | M | | | | | | H | |
| Suspended Solids | H | H | H | H | | | M | M | L | M | H |
| Turbidity | L | M | M | M | | | | | M | M | |
| Conductivity | M | L | L | | L | | | | | | |
| Total dissolved solids | | L | L | | H | L | H | M | H | H | L |
| pH | H | M | L | L | M | | H | M | M | H | H |
| DO | H | H | L | | L | | L | H | L | | |
| Chlorophyll a | L | M | M | M | | | | | | | |
| Ammonia | L | H | L | | | | L | | | L | |
| Nitrate/Nitrite | M | L | H | | | M | | | | M | L |
| Phosphorus | M | | | | | | | | L | | |
| Total organic carbon | M | | L | L | | | | | | | |
| Chemical oxygen demand | M | M | | | | | M | | | | |
| Biochemical oxygen demand | H | H | M | | | | | | | | |
| Sodium | L | | L | | H | | | | | | |
| Potassium | L | | | | | | | | | | |
| Calcium | L | | | | L | L | H | | L | L | H |
| Magnesium | M | | L | | | | L | | L | L | H |
| Chloride | M | | L | | H | | M | M | L | H | H |
| Sulphate | L | | L | | | L | M | M | M | H | L |
| Fluoride | | | M | | L | L | | | | | |
| Boron | | | | | M | L | | | | | |
| Cyanide | | L | L | | | | | | | | |
| Metals | | M | H | | L | L | L | | L | M | |
| Arsenic/Selenium | | M | M | | L | L | | | | | |
| Oil and Hydrocarbons | | L | M | | | | L | L | | L | H |
| Organic Solvents | | L | H | | | | | | | L | |
| Phenols | | L | M | | | | | | | L | |
| Pesticides | | M | M | | | | | | | L | |
| Fecal Coliforms | | | H | H | H | | | | | | |
| Total Coliforms | | | H | H | L | | | | | | |
| Pathogens | | | H | H | L | M | | | | H | |
| <i>Chapman (1996)</i> | | | | | | | | | | | |